Jonfosse swimming pool

Jonfosse district, Liège (BE)

Complete stability, building engineering services, EPB manager and safety coordination mission

Owner
Ville de Liège

Architect
Henri Garcia

Cost of the works
€ 12,80 M excl. vat of which
€ 5,74 M for the structure and
€ 3,38 M for the building engineering services

Studies
2012 - 2020

Execution
2018 - 2020

ST TS EN CS

The new Jonfosse aquatic complex with a surface area of 9,890 m² (swimming pool area 4,140 m², car park area 5,750 m²) is built on the existing car park located between Rue Jonfosse and Place des Béguinages in Liège. This is an urban project developed through rectangular forms over the entire plot. It is harmoniously aligned with the existing buildings, preserves the privacy of bathers and its design ensures a large amount of natural light both on the roof and on the façade.

The new infrastructure consists of a semi-Olympic pool with six lanes, a training pool, a play and relaxation lagoon, bleachers, and a public bathing area. In addition to its sports, social, leisure and school functions, the Jonfosse swimming pool has an overhead car park with 173 spaces.

The structure is simple and best suited to the architectural principles defined. The shed roof of the swimming pool is made up of metal lattice girders on the vertical face of the sheds to maximise the entry of light into the building.

The stainless-steel basin simplifies the structure around the pool as the concrete no longer contributes to the waterproofing of the pool.

The office-cafeteria area separates the swimming pool area from the car park and has a simple, classic structure with prefabricated slabs on walls and beams.

The parking spaces are arranged on the prefabricated hoarding ramps, which are supported in their centre by a central wall of prefabricated concrete. The building is founded on piles, anchored to the bed-rock. To avoid major shoring along the adjoining buildings, the basement volumes were offset from the existing buildings to have the possibility of creating slopes.

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The sustainable approach adopted by all the partners in the DBFM team has resulted in an exemplary project from an energy and environmental point of view. Energy requirements were limited by optimising the building envelope, while making the most of natural light by using large windows.

From a technical point of view, the thermal envelope is insulated beyond the EPB requirements. The use of cogeneration, condensing boilers, LED lights and a dehumidification system using a heat pump makes it possible to limit energy consumption very significantly. Water and chlorine consumption is reduced to a strict minimum thanks to additional treatment by UV lamp. Finally, the rinsing water from the sand filters is reused after filtration by reverse osmosis.